4.4.15 $\omega_{AB} = 3{,}13$ rad/s,
$\omega_{BC} = 0{,}475$ rad/s,
$\alpha_{AB} = 3{,}7$ rad/s^2, $\alpha_{BC} = 4{,}58$ rad/s^2

4.4.16 $\omega_{AO} = 0{,}727$ rad/s,
$\omega_{BO} = 0{,}275$ rad/s,
$\alpha_{AO} = 0{,}356$ rad/s^2,
$\alpha_{BO} = 0{,}570$ rad/s^2

4.4.17 $v_D = 3{,}5$ m/s, $a_D = 43$ m/s^2

4.4.18 $\omega_{AB} = 0{,}575$ rad/s (u smj. k. s.),
$\alpha_{AB} = 0{,}4875$ m/s^2 (sup. smj. k. s.)

4.4.19 $a_B = 6{,}708$ m/s^2, $a_D = 8$ m/s^2,
$\omega = \sqrt{2}$ rad/s, $\alpha = 3$ rad/s^2

4.4.20 $v_B = 0{,}693$ m/s, $a_B = 2{,}4$ m/s^2

4.4.21 $\vec{v}_A = 0{,}6\vec{\imath}$, $v_A = 0{,}6$ m/s ,
$\vec{v}_B = 0{,}6\vec{\imath}$, $v_B = 0{,}6$ m/s ,
$\vec{a}_A = 1{,}2\vec{\imath} - 0{,}6\vec{\jmath}$, $a_A = 1{,}342$ m/s^2
$\alpha_{AB} = 1{,}5$ rad/s^2 , $a_B = 1{,}65$ m/s^2

4.4.22 $v_A = 0{,}9$ m/s, $v_B = 0{,}375$ m/s,
$v_C = 0{,}65$ m/s, $v_D = 1{,}04$ m/s,
$\omega = 2{,}25$ rad/s

4.4.23 $v_E = 0{,}53$ m/s, $a_E = 0{,}345$ m/s^2

4.4.24 $\omega = 12$ rad/s, $\alpha = 113{,}6$ rad/s^2

4.4.25 $v_C = 1{,}6$ m/s, $\omega_{BC} = 5{,}5$ rad/s,
$\alpha_{BC} = -31{,}6$ rad/s^2

4.4.26 $v_C = 0{,}15$ m/s, $\omega_{BC} = 2{,}5$ rad/s,
$\alpha_{BC} = -2{,}666$ rad/s^2

4.4.27 $v_B = 1{,}5$ m/s, $a_B = 3{,}7$ m/s^2,
$v_C = 0{,}7$ m/s, $a_C = 14{,}2$ m/s^2,
$\omega_{ABC} = 4$ rad/s, $\alpha_{ABC} = 31{,}33$ rad/s^2

4.4.28 $v_D = 0{,}33$ m/s, $a_D = -1{,}55$ m/s^2,
$\omega_{AB} = 2{,}925$ rad/s,
$\omega_{CD} = 1{,}01$ rad/s,
$\alpha_{AB} = -2{,}28$ rad/s^2, $\alpha_{CD} = 3{,}61$ rad/s^2

4.4.29 $v_C = 1{,}1$ m/s, $a_C = 20{,}6$ m/s^2

4.4.30 $v_C = 4{,}8$ m/s, $a_C = 25$ m/s^2,
$\omega_{BC} = 4{,}3$ rad/s, $\alpha_{BC} = 29{,}5$ rad/s^2,
$\omega_{CD} = 3{,}2$ rad/s, $\alpha_{CD} = -13{,}3$ rad/s^2

4.4.31 $v_C = 6$ m/s, $\omega_{BC} = 5$ rad/s

4.4.32 $v_A = 2{,}158$ dm/s, $\omega_{BC} = 0{,}992$ rad/s

4.4.33 $v_A = 2{,}4$ m/s, $\omega_{AB} = 4{,}156$ rad/s

4.4.34 $v_C = 1{,}330$ m/s, $\omega_{AC} = 4{,}267$ rad/s

4.4.35 $v_B = 0{,}8196$ m/s,
$a_B = 2{,}529$ m/s^2,
$\omega_{AB} = 0{,}4899$ rad/s,
$\alpha_{AB} = 2{,}276$ rad/s^2

4.4.36 $\omega_{BC} = 0{,}2857$ rad/s, $\alpha_{BC} = 0$ rad/s^2,
$\omega_{CD} = 0{,}2857$ rad/s,
$\alpha_{CD} = -0{,}6857$ rad/s^2

4.4.37 $a_A = 0{,}04$ m/s^2, $\omega_{AB} = 0$, $\alpha_{AB} = 0$
$v_B = 0$, $a_B = 0{,}04$ m/s^2

5 Kinematika sfernog gibanja

5.1 a) $\delta = 33{,}69°$ (mjereno od osi y),
b) $\delta = 146{,}3°$ (mjereno od osi y)

5.2 $\vec{\omega}_{AB} = p\vec{\jmath} + \omega_0\vec{k}$, $\vec{\alpha}_{AB} = -p\omega_0\vec{\imath}$

5.3 $\vec{v}_A = 27{,}3\vec{\imath} - 3{,}87\vec{\jmath} - 13{,}07\vec{k}$,
$v_A = 30{,}51$ m/s,
$\vec{a}_A = -949\vec{\imath} + 2520\vec{\jmath} - 2730\vec{k}$,
$a_A = 3\,834{,}6$ m/s^2

5.4 $a_A = 15{,}65$ m/s^2, $R = 0{,}652$ m